507/51-7-2-16/34

. Infrared Absorption by Thin Layers of Tin Dioxide

above +150° the resistance fell exponentially with increase of temperature. The observed behaviour may be explained by introduction of chlorine ions as impurities in the preparation stage. Such chlorine ions may replace oxygen ions, producing donor levels which can spread out into an impurity band at chlorine-ion densities above 1019 cm-1. found also that the electrical conductivity of SnO2 layers may be increased considerably by introducing antimony into the oxide lattice. This is done by adding a small amount of SbCl3 to SnCl4 in the preparation stage. In this way layers with a conductivity of 103-104 ohm-1 cm-1 could be easily produced. The resistance of such layers rises with temperature as in metals and they exhibit considerable absorption in the infrared Acknowledgments are made to K.D. Sinel'nikov for suggesting the subject, I.N. Shklyarevskiy and N.A. Vlasenko for their advice and D. Smelov for his help in experiments. There are 4 figures and 11 references, 7 of which are Soviet, 2 English, 1 German and 1 translation from English into Russian.

SUBMITTED: November 11, 1958

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S/051/60/008/06/019/024 E201/E691

AUTHORS:

Miloslavskiy, V.K. and Lyashenko, S.P.

A

TITLE:

Optical and Electrical Properties of Thin Layers of Tin Dioxide

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 6, pp 868-874 (USSR)

ABSTRACT:

The paper reports an investigation of the temperature dependences of the Hall constant (Fig 1) and the electrical conductivity (Fig 2) of thin Sb-doped layers of SnO₂ in a wide range of temperatures (200-300°C), of the wavelength dependence of the transmission coefficient between 0.35 and 2.5 μ (Fig 3) and of the optical reflectivity between 1.5 and 6 μ (Fig 4). The samples were prepared by deposition of SnCl₄ with a small amount of SbCl₃ on glass plates which were then heated. Introduction of antimony was found to increase the electrical conductivity and the carrier density (up to 10^{21} cm⁻³) of SnO₂ layers. The samples used had carrier densities $M = 2 \times 10^{19} - 10^{21}$ cm⁻³ (cf. the table on p 870). The optical density per unit thickness of the sample (at $\lambda = 2.5 \mu$) was found to be directly proportional to the electron density M deduced from the Hall e.m.f. (Fig 5). This indicates that absorption in the near infrared region is due to conduction electrons. The authors calculated also the

Card 1/2

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S/051/60/008/06/019/024 m201/m691

Optical and Electrical Properties of Thin Layers of Tin Dioxide

optical constants n and k in the absorption-edge region $(1.7-2.5~\mu)$ from the experimental values of the reflectivity and the transmission coefficient and known thicknesses of the samples. A simple relationship between the real part of complex permittivity, ξ , and the optical constants given by

 $\varepsilon = n^2 - k^2 = \varepsilon_0 - \frac{4n\pi e^2}{m^2 \omega^2}$ (3)

(where e is the electron charge and m^R is the effective carrier mass) was used by the suthers to find E. The linear decrease of E with the square of wavelength is shown in Fig 7. Acknowledgments are made to I.N. Shklyarevskiy and N.A. Vlasenko for their advice. There are 7 figures, 1 table and 10 references, of which 5 are Soviet, 1 English, 2 German, 1 Japanese and 1 translation from English into Russian.

SUBMITTED: Nowmber 9, 1959

ard 2/2

SHKLYAREVSKIY, I.M.; VIASENKO, N.A.; MILOSLAVSKIY, V.K.; NOSULENKO, N.A.

Value and sign of the phase difference $\Delta = S_p - \delta_s$. Opt. i spektr.

9 no.5:640-643 N *60. (MIRA 13:11)

(Reflection (Optics)) (Metals—Optical properties)

VIASENKO, N.A.; MILOSLAVSKIY, V.K.; SHKLYAREVSKIY, I.N.

Interference of luminescent radiation from sublimate phosphors. Opt. 1 spektr. 11 no.3:403-409 S '61. (MIRA 14:9) (Phosphors) (Luminescence)

Optical constants of cadmium oxide in the infrared a pectra region.

Opt.1 spektr. 11 no.4.536-541 0 '61. (MIRA 14:10)

(Cadmium oxide---Optical properties)

S/051/62/012/006/018/020 E032/E414

AUTHORS: Shklyarevskiy, I.N., Miloslavskiy, V.K.

TITLE: On the magnitude and sign of the phase difference

 $\triangle = \delta_{\mathbf{p}} - \delta_{\mathbf{s}}$

PERIODICAL: Optika i spektroskopiya, v.12, no.6, 1962, 793-795

TEXT: In a previous paper (Opt. i spektr., v.9, 1960, 640) the authors discussed the phase difference $\Delta=\delta_p-\delta_s$ where δ_p and δ_s are the phase shifts of the p and s components of the electric vector at a given angle of incidence of light on the surface of a metal. It was shown that the magnitude and sign of this difference can be unambiguously determined by direct measurements and such measurements have in fact now been carried out. However, N.Ya.Gorban' and I.A.Shaykevich (Opt. i spektr., v.11, 1961, 750) have obtained results which do agree with these conclusions. A further analysis of the Fresnel reflection coefficients is now used to show that the present authors' conclusions reported in the previous paper still hold and that Gorban' and Shaykevich have used an incorrect interpretation. There are 2 figures.

SUBMITTED: January 12, 1962

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5/051/62/013/002/008/014 E032/E514

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Card 1/2

Vlasenko, N.A., Miloslavskiy, V.K. and Shklyarevskiy, I.N.

AUTHORS: On the origin of Brewster and super-position fringes TITLE:

PERIODICAL: Optika i spektroskopiya, v.13, no.2, 1962, 250-255

The conditions necessary for the appearance of Brewster fringes in white light and super-position fringes in monochromatic light are discussed in the general case with allowance for multiple reflections within each plate. The two types of fringes are carefully defined and the differences between them are brought out. In each case an explicit relation is given for the intensity distribution. In the case of Brewster fringes, the corresponding intensity-distribution formula is used to establish a condition for the continuity of the achromatic fringe. In fact the achromatic fringe is continuous (visual observation) provided $t\triangle y > 2.5$, where t is the plate thickness and $\triangle y$ is the wave number difference corresponding to the spectral range The final section is concerned with the analysis of Brewster fringes which are produced when a two-beam interferometer, e.g. the Jamin interferometer, is crossed with a silvered plane-

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On the origin of Brewster and ... \$/051/62/013/002/008/01/4 E032/E51/4

parallel plate. Analysis of the corresponding intensity distribution shows the presence of several achromatic fringes and it is suggested that these fringes may be useful in speeding up the adjustment of two-beam interferometers. They may also be useful in rapid order counting and the measurement of the thickness of plane-parallel layers. There are 5 figures.

SUBMITTED: July 17, 1961

Card 2/2

5/051/63/014/004/013/026 E039/E420

AUTHOR:

Miloslavskiy, V.K.

TITLE:

The optical properties of thin CdS layers in the

spectral region 0.4 to 18 µ

PERIODICAL: Optika i spektroskopiya, v.14, no.4, 1963, 527-531

TEXT: Layers of CdS are prepared by vacuum evaporation from Mo and Ta evaporators. Partial dissociation of CdS occurs when heated near to its sublimation temperature in vacuo. The CdS heated near to its sublimation temperature in vacuo. The CdS heated near to its sublimation temperature in vacuo. The CdS heated therefore contain a surplus of Cd metal which alters their layers therefore contain a surplus of Cd can be determined electron conductivity. This surplus of Cd can be determined chemically. For investigations in the infrared region of the spectrum, layers of CdS, 2 to $5\,\mu$ thick, were built up on thin slices spectrum, layers of CdS, 2 to $5\,\mu$ thick, were built up on thin slices of rock salt. The transmission of these layers was measured in of rock salt. The transmission of these layers was measured in spectrophotometer. Typical results show good transmission in the spectrophotometer of the spectrophotometer of the security of the sample. In order to also with increasing conductivity of the sample. In order to elucidate the nature of these observations, the dependence of card 1/2

The optical properties ...

S/051/63/014/004/013/026 E039/E420

transmission and conductivity on temperature is determined. The effect of annealing at 350°C on the absorption of CdS in the visible region is also investigated. Typical results are that absorption decreases in the range 500 to 600 mm and increases in the range 400 to 500 mm due to changes in the stoichiometry of the samples. There are 4 figures.

SUBMITTED: July 7, 1962

Card 2/2

MILOSLAVSKIY, V.K.

AID Mr. 987-7 11 June

AMPLIFICATION OF MACNETOOPTICAL EFFECTS (USSR)

Miloslavskiy, V. K. Optika i spektroskopiya, v. 14, no. 4, Apr 1963, 532-536. S/051/63/014/004/014/026

The principle of multiple-beam interference is considered as a means of amplifying the magnetooptical Faraday and Kerr effects. Because of excessive absorption in the visible portion of the spectrum, semiconductors are regarded as inferior to dielectrics used in adjunction with highly reflective coatings. Interference photofilters trics used in adjunction with highly reflective coatings. Interference photofilters filled with a dielectric coated with partially transparent metal were used in an experimental study of the Faraday effect. Filters with a 0.95 reflectivity coefficient can increase the rotation of polarization plane 20 times, permitting the use of much thinner dielectric films to observe the Faraday effect. When polarization ellipticity is accounted for in the Kerr-effect rotation angle, its function of phase difference shows an asymmetry which has been experimentally observed in such specimens as permalloy-oxide, steel-oxide, and steel-quartz-silver.

Card 1/1

LYASHENKO, S.P.; MILOSLAVSKIY, V.K.

Determining the effective mass in tin dickide from the optical constants in the infrared region. Fiz. tver. tela 6 no.8:2560-2562 Ag 164.

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L 21812-65 EWT(1)/EWT(m)/EPA(w)-2/EEC(t)/EWP(t)/EEC(b)-2/EWP(b) 5/0185/64/009/012/1291/1299 ESD(gs)/IJP(c) JD ACCESSION NRE AP5001549 AUTHOR: Lyashenko, S. P.; Myloslavs'kyy, V. K. (Miloslavskiy, V. K.) TITLE: Optical properties of free electrons in tin dioxide Source: Ukrayins kyy fizychnyy zhurnal, v. 9, no. 12, 1964. 1291-1299 TOPIC TAGS: free electron, free electron property, optical constant, free electron concentration, electron mobility, effective mass, effective carrier mass ABSTRACT: The variation of optical constants for wavelengths from 0.4 to 94 on polycrystalline layers of SnO2 at various concentrations of free electrons N has been investigated. N was varied by introducing a controlled amount of Sb atoms into SnO2. It was shown that the variation of the optical constants conforms to the theory of free electrons derived for isotropic semiconductors. The effective mass of carriers in polycrystalline specimens was determined from comparisons of optical measurements and measurements of Hall constants. At Card 1/13

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ACCESSION NR: AP5001549

N > 10²⁰ cm⁻³, the effective mass (m' = 0.3m) changes very little with concentration. At N < 10²⁰ cm⁻³, m' decreases rapidly with the decrease of N. This decrease results from the influence of the additional absorption in the infrared range on the variation of the real tional absorption in the infrared range on the variation of the real part of the dielectric constant & associated with the impurity centers and the optical oscillations of lattice. The contribution to a test and the optical oscillations is small at N > 4 x 10¹⁹ cm⁻³. At due to lattice oscillations is small at N > 4 x 10¹⁹ cm⁻³. At N > 10²⁰ cm⁻³, the contribution due to quantum transitions between the nerging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The values obtained for m' and v (rethe merging of the two zones. The va

ASSOCIATION: Kharkivs'kyy derzhuniversytet im. O. M. Gor'kogo (Khar'kov State University)

Card 2/3

S/0051/64/016/001/0151/0153

ACCESSION NR: AP4011498

AUTHOR: Lyashenko, S.P.; Miloslavskiy, V.K.

TITLE: A simple method for determining the thickness and optical constants of semiconductor and dielectric layers

SOURCE: Optika i spektroskopiya, v.16, no.1, 1964, 151-153

TOPIC TAGS: optical constant, index of refraction, absorption coefficient, transmittance, layer thickness, dielectric layer, dielectric coating, semiconductor layer, semiconductor coating

ABSTRACT: A method is proposed for determining the thickness and the optical constants (the index of refraction n and the absorption coefficient k) of semiconductor and dielectric layers. Whereas conventional procedures are based on either simultaneous measurement of the reflection coefficient R at normal incidence, the transmittance T and independent measurement of the thickness or on comparison of the transmittance (or reflection) for two different thicknesses, the present method is based on measurement of the transmittance T in a wide spectral range. The method can be used in all cases when there is an extensive region wherein n is much greater than k. Formulas are adduced for evaluating n, k and the thickness from the suc-

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MILOSLAVSKIY, V.K.; SHKLYAREVSKIY, I.N.

Further on the appearance of Brewster bands and superposition bands. Opt. i spektr. 16 no.3:528-529 Mr '64. (MIRA 17:4)

MILOSLAVSKIY, V.K. Characteristics of the Faraday effect in thin absorbing films. Opt. i spektr. 17 no.3:413-417 S *64. (MIRA 17:10)

L 34545-65 EWT(1)/EEC(t)/EEC(b)-2 Pi-4 LJP(c)

ACCESSION NR: AP4048751 8/0051/64/017/005/0765/0770

AUTHORS: Shklyarevskiy, I. N.; Miloslavskiv, V. K.; Goloyadova, V. I.

TITLE: Wide-angle interference of light

SOURCE: Optika i spektroskopiya, v. 17, no. 5, 1964, 765-770

TOPIC TAGS: light interference, luminescence, coherent optical propagation

ABSTRACT: A quantitative study was made of interference of luminescence light with an angle $\varphi=180^\circ$ between the interfering beams. Such measurements have become feasible only recently by the availability of modern equipment with which to measure weak radiation. A thin luminescent layer (solution of pyrazoline and polystyrene in an organic solvent) was deposited on a thin mica plate (5--10 μ). After evaporation of the solvent the layer had approximately the same refractive index as the mica. The second side of the mica was covered

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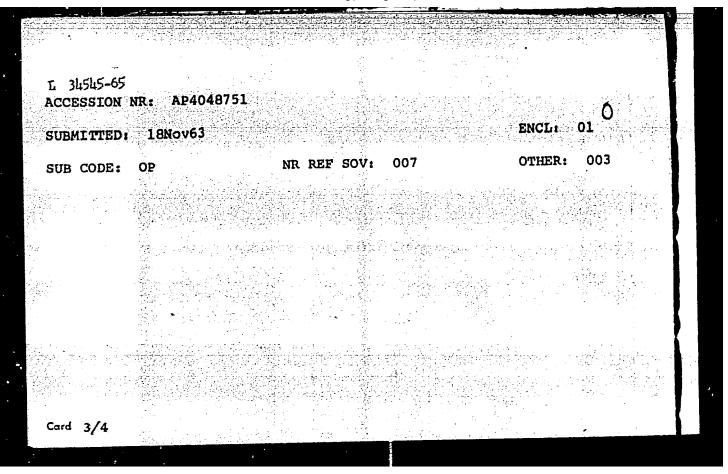
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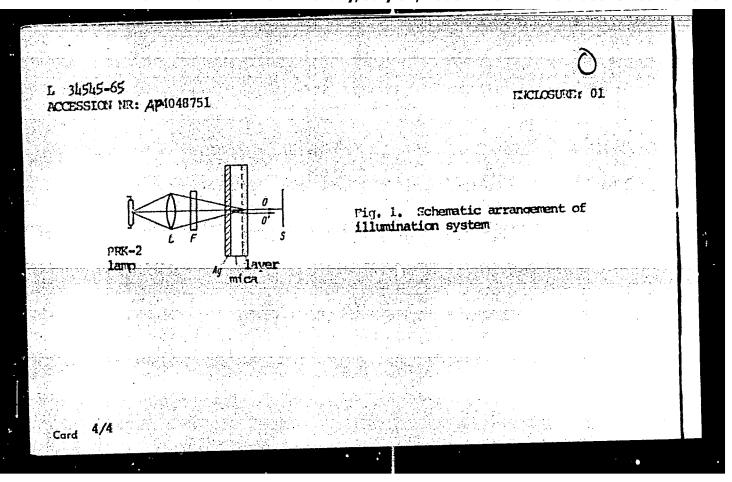
with a semitransparent layer of silver (reflection coefficient on the mica side about 85% for $\lambda=550$ nm. The sample was placed in front of the spectroscope slit and illuminated, as shown in Fig. 1 of the Enclosure by ultraviolet light ($\lambda=365$ nm). The luminescence propagating along the normal from the sample surface was passed through a monochromator and recorded with a photoelectric setup using an FEU-29a photomultiplier. A system of interference lines of constant wavelength was produced by the plane-parallel gap comprising the mica and the luminescent layer. The visibility of the interference lines was recorded and compared with calculations based on the plane-wave approximation. The experimental visibility was lower than calculated, owing to non-uniformity of the thickness of the luminescent layer, light scattering by various defects, and other unaccounted for factors. Orig. art. has: 5 figures.

ASSOCIATION: None

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L 00679-66 EFF(c)/EMT(m)/EMP(b)/EMP(t) IJP(c) JD

ACCESSION NR: AP5012574 UR/0181/65/007/005/1559/1552

AUTHOR: Miloslavskiy, V. K.; Lyashenko, S. P.

TITLE: Concentration shift of the edge of the intrinsic absorption band in tin dioxide

SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1550-1552

TOPIC TAGS: tin compound, absorption edge, refractive index, light transmission

ABSTRACT: The authors observed and investigated the shift of the intrinsic absorption edge of SnO₂, the red boundary of which is located at 4 eV. The measurements were made on polycrystalline layers deposited on a quartz substrate. The electron density was varied by introducing antimomy atoms. The refractive index (n = 1.93)

tion edge of SnO_2 , the red boundary of which is located at 4 eV. The measurements were made on polycrystalline layers deposited on a quartz substrate. The electron density was varied by introducing antimomy atoms. The refractive index (n=1.93) was determined from interferometric transmission curves in the visible region. The width of the forbidden band was 3.97 eV, in fair agreement with data on temperature measurements of the conductivity. The experimental points fit well the theoretical formula for the connection between the shift and the electron density. The value of the reduced effective mass, $\mu = (0.48 \pm 0.02)$ m, necessary to reconcile these data with the theory, is close to the value of μ obtained from the spectral variation of the absorption of the sample with the lowest electron density. On the other hand, the value of μ obtained in the present work differs noticeably from

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	ACCESSION NR: AP5017899 UR/0051/65/019/001/0108/0114 535.32 + 535.341 4/8	
	AUTHORS: Lyashenko, S. P.; Miloslavskiy, V. K.	
	TITLE: Study of the optical properties of tin dioxide thin films in the visible and ultraviolet regions 27 27 74.55, 146	
9	SOURCE: Optika i spektroskopiya, v. 19, no. 1, 1965, 108-114	
	TOPIC TAGS: tin compound, optic measurement, optic property, optic spectrum, UV spectrum, absorption edge	
	ABSTRACT: In view of the appreciable divergence of the results obtained by different authors, apparently owing to the use of different criteria for estimating the edge of the fundamental band, the authors investigated the optical constants of thin SnO films with different	
	carrier densities in the range from 1.1 to 0.23 μ. A thin layer of SnO ₂ was deposited on a quartz plate heated to temperature > 500C by	
	a method described by the authors earlier (Opt. 1 spektr. 8, 868,	
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ACCESSION NR: AP5017899

The transmission and reflection of the samples was measured 1960). with a spectrophotometer (SF-4). The optical constants and the thickness of the layer were measured from the interference transmission curves, as described by the authors earlier (Opt. 1 spektr. v. 16. 80. 1964). A special attachment for the spectrophotometer was used to measure the reflection coefficient at wavelengths shorter than 0.35 µ. The results show that for energies greater than 4 eV the absorption is due to the direct allowed interband transitions, and that for lower energies it depends on the lattice imperfections. The frequency dependence of the absorption of strongly doped samples was explained on the basis of the theory of distorted bands. The temperature dependence of the absorption edge was also investigated and it was found that the absorption edge increases linearly with decreasing temperature, at an average rate of 6.5 x 10 4 ev/deg. The actual value of the absorption edge depends on the carrier density, ranging from approximately 3.8 to 4.4 ev at room temperature. ! The authors thank I. N. Shklyarevskiy and R. G. Yarova for valuable discussions. Orig. art. has: 6 figures and 5 formulas. 44

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L 17878-66 EWT(1)

ACC NR: AP5027673

SOURCE CODE: UR/0051/65/019/005/0792/0799

AUTHOR: Miloslavskiy, V. K.; Ryasanov, A. N.

ORG: none

기기다. Multiple-wave interference in a wedge

SOURCE: Optika i spektroskopiya, v. 19, no. 5, 1965, 792-799

TOPIC TAGS: wave mechanics, calculation, light reflection coefficient, light interference, light source

ABSTRACT: Multiple-wave interference from a point source situated near an air wedge was theoretically interpreted by plotting the sequence of imaginary sources formed by multiple reflection from two surfaces of the wedge. The sequence of coherent sources was situated in the main section of the wedge (in the plane perpendicular to the side of the wedge) on the circle passing through the real source and having a center in the side of the wedge. The circle on which the localisation of interference fringes was observed passed through the side of the wedge and was tangent to the circle of ceherent sources in the point of a true source. It was shown that the conditions of a distinct visibility are controlled

Card 1/3

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ACC NR: AP5027673

by the following inequality: $2t^2\cos\eta_1 - 2t^2\cos\eta_2 | \frac{\lambda}{2N}$, where t^2 and t^2 are the wedge thicknesses in the points of intersection of the wedge surface with the ray passing to the point of observation, η_1 and η_2 are angles of incidence, and N is the coefficient of reflection of the wedge surfaces. The linear size of the source can be evaluated from $2\Delta t\cos\eta = 2st\cos\eta < \frac{\lambda}{2N}$ (where η is the average angle of incidence, 1 is the length of the source by the χ axis, and ε is the wedge angle) provided the source is situated near the wedge and the observation point is sufficiently distant. At $\frac{\lambda}{N} = \frac{\lambda}{N} = \frac{\lambda}{N} = \frac{30}{N}$, $\frac{\lambda}{N} = \frac{30}{N} = \frac{1}{N}$, the $\frac{\lambda}{N} \leq 0.1$ mm. sufficiently distant. At $\frac{\lambda}{N} = \frac{\lambda}{N} = \frac{1}{N} = \frac{30}{N} = \frac{30}{N} = \frac{1}{N} =$

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smaller we interfered is present Fiseau lin Shklyareve has: 14	ed in todge and the ist at the interior interior and inte	he reflect gle to pro expressed to large and to p- and a id P. G. Is as and 3 II	duce dis by the i gles of - compor rovaya gures.	itinet vices that observation to a di	isibilit t the gr tion, wh s observe	y. Treatest eare s red. I	e effe ; visib plitting the aut	ot of ility g of t hors t ilts.	the or of the heart hank Origo	rder e pat rrow I. N.	of tern

AP6007008 ACC NRI Titova, Te. AUTHOR: Miloslavskiy, V. K.; none TITIE: Observation of the Faraday effect in interference light filters SOURCE: Optika i spektroskopiya, v. 20, no. 2, 1966, 335-336 TOPIC TAGS: Faraday effect, light filter, optic coating, optic transmission, light reflection, light polarization ABSTRACT: This is a continuation of an earlier paper (Opt. i spektr. v. 14, 532, 1963) where it was shown that when transmission interference filters are used it is possible to amplify the Faraday effect in a dielectric which forms an integral part of the filter. The present study was devoted to the amplification in the systems Ag-ZnS-Ag and Ag-cryolyte-Ag. The filters were obtained by vacuum evaporation at a pressure < 10-4 mm Hg on a glass substrate. The angle of rotation of the plane of polarization was measured in a magnetic field of about 20 kG using a photoelectric... spectropolarimeter in the 400-700 nm range. The same apparatus was used to measure the transmission of the filters. The results for the Ag-ZnS-Ag system show that the rotation and transmission angles change periodically with the wavelength, and that the maxima of the rotation and transmission coincide. This agrees with the deduction of the earlier data. Calculation of the amplification coefficient shows that for different filters it ranged from 10 to 18, corresponding to a variation in the reflectivi UDC: 533.417: 525.345.6 Card 1/2

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ty from 82 to 90 prepared. The A because of the s measured additionary. It is poin netic layers are tion would be go	ig-cryolyte-A small value of onal rotation of the out in co to used for the overned by the	g system sho of the Verdet is caused by conclusion the metallic c is ferromagne	wed no osci constant f the reflect at in the co catings the tic layer,	llations or cryoly ion at the ase of fire rotation because t	in the angote in the me dielectrilters in word the plant of the plant of the small r	le of rotation absence of ic-silver bound ich ferromag and of polariotations in
the dielectric c SUB CODE: 20/					lgure and 2 OTH REF:	
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SOURCE CODE: UR/0181/66/008/007/2054/2061

AUTHOR: Miloslavskiy, V. K.

ORG: Khar'kov State University im. A. M. Gor'kiy (Khar'kovskiy gosudarstvennyy uni-

TITLE: Quantum absorption in degenerate semiconductors and metals in the case of direct transitions

SOURCE: Fizika tverdogo tela, v. 8, no. 7, 1966, 2054-2061

TOPIC TAGS: quantum resonance phenomenon, absorption spectrum, temperature dependence absorption edge, metal property

ABSTRACT: The author considers several concrete cases of quantum transitions between partially filled bands and explains the influence of the temperature and of the imperfections on the spectral variation of the absorption at the edge in the case of direct transitions. This is done by analyzing the spectral dependence of the high-frequency conductivity of metals and degenerate semiconductors. A quantum procedure for the calculation of the conductivity is proposed, based on an integral representation of the conductivity in terms of the projection of the matrix element of the momentum and the energy discontinuity at threshold. The proposed calculation scheme explains the square-root dependence of the threshold of absorption in noble metals, previously observed experimentally. Singularities of the absorption, occurring when structural violations occur in the periodicity, are noted in the case when the thresh-

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ACCESSION NR: AP4043403

s/0181/64/006/008/2560/2**562**

AUTHORS: Lyashenko, S. P.; Miloslavskiy, V. K.

TITLE: Determination of effective mass in tin dioxide from the optical constants in the infrared region

SOURCE: Fizika tverdogo tela, v. 6, no. 8, 1964, 2560-2562

TOPIC TAGS: tin oxide optical constant, ir optical absorption, refractive index, dielectric constant, relaxation oscillation, Hall constant

ABSTRACT: In view of the discrepancies on the values of the effective mass of the electrons in SnO₂ obtained by different workers.

the present authors calculate the effective mass in polycrystalline layers of tin dioxide in the electron density range from 5×10^{17} to 5×10^{20} cm⁻³. The electron density in the layers was regulated by introducing small amounts of antimony into the layers [2]. The ef-

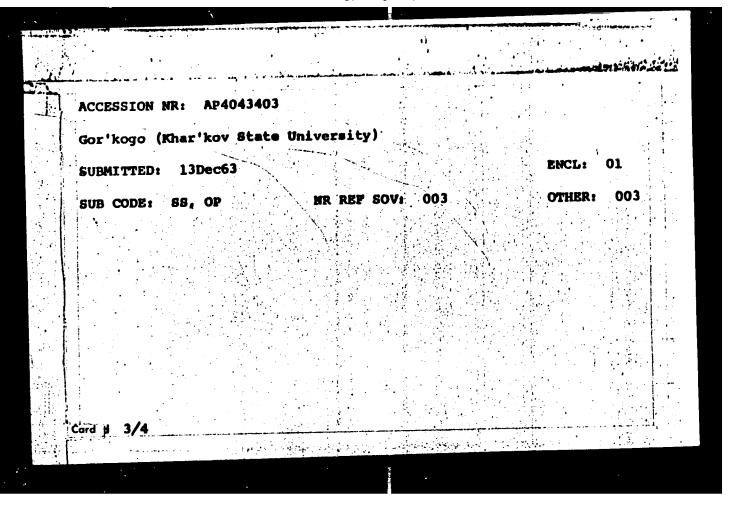
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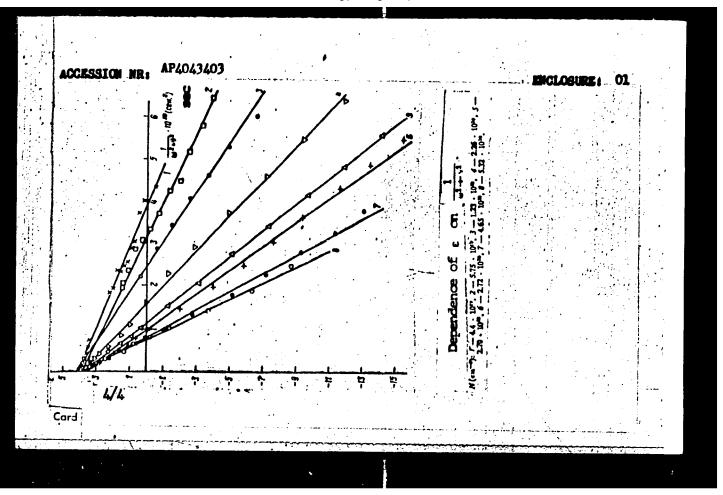
fective mass was determined by comparing the optical constants n and k obtained by polarization measurements of reflected light from non-transparent samples in the infrared region, with measurements of the Hall constant of the same samples. The measurements were made in the wavelength range from 1 to 9 microns. The optical constants are determined essentially from the dependence of the dielectric constant on the quantity $(\omega^2 + v^2)^{-1}$ $(\omega$ -- frequency of incident radiation, v -- relaxation frequency). The Hall constant is determined by averaging over the principal values of the reciprocal effective mass tensor. The results show that the effective mass increases with increasing electron density and some of the factors that cause this behavior are analyzed. The most reliable values of the effective mass are obtained for an electron density larger than 10^{20} cm⁻³ for at lower values it is difficult to account for the various factors. Orig. art. has: 2 figures.

ASSOCIATION: Khar'kovskiy gosudarstvenny*y universitet im. A. M.

Card 2/4

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AUTHOR: Milaslavskiy, V. K. TITLE: Peculiarities of the Faraday	effect in thin absorbing films
SOURCE: Optika i spektroskopiya, v.	17, no. 3, 1964, 413-417
TOPICTAGS: Faraday effect, polarize of vibration plane, magnetic field,	
ABSTRACT: Rotation of the plane of transmitted through a thin absorbing netic field is analytically investig complex wave amplitude based on Free tion coefficients, an expression is of a wave transmitted through the fifteen a study of phases corresponding tary and dextrorotary polarization, rotation of the polarization plane,	rated. From a formula for the mel's transmission and reflected for the resultant phase ilm with no magnetic field press. to waves subjected to levoro-

L 8747-65 ACCESSION NR: AP4044853

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field acting in the direction of the wave propagation is switched on It is shown, that in the case of absorbing films, the total angle of rotation must be the sum of three angles, only one of which defines the shift caused by the passage of the wave through the thickness of the film; to this volume rotation, which is usually held sufficient for Faraday effect measurements, one has to add angles of the surface rotation and interference rotation, the values of which may be quite considerable. It is also demonstrated that volume, surface, and interference effects influence the ellipticity of the polarized light, and formulas are given for its calculation. The author suggests that data on surface rotation may be helpful in studies of physical and chemical surface conditions of matter. "The author thanks I, N, Skhlyarevskiy and R, G, Yarov for discussions of the results." Orig. art. has: 15 formulas.

ASSOCIATION: none

SUBMITTED: 04Nov63

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CIA-RDP86-00513R001134320(

BRUSILOVSKIY, Isaak Abrumovich; MILOSLAVSKIY, Vilen Naumovich;
BAYEV, Yevg., red.

[Saki; an historical reg'onal study] Saki; istorikokraevedcheskii ocherk. Simforopol', Krymizda: 1964.
79 p. (MIRA 17:6)

"Etoilogy and prophylaxis of endemic goiter from the hygienic point of view."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

MILOSLAVSKIY, V.V., prof. (Mazan')

Midemic goiter. Maz.med.zhur. 40 no.1:8-13 Ja-F'59.

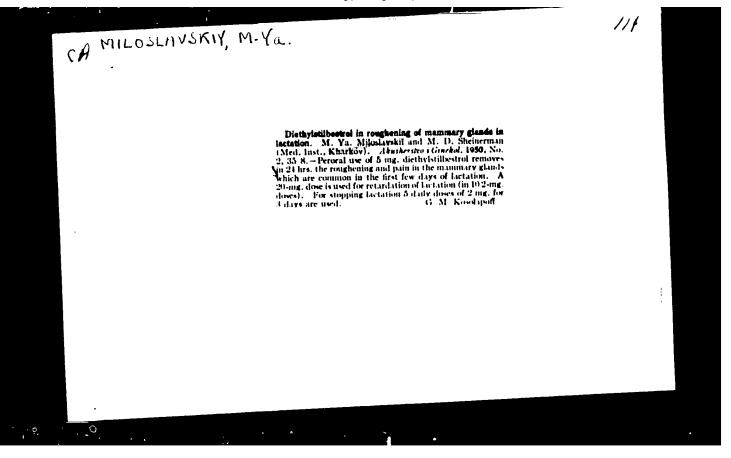
(MIRA 12:10)

(GOITMR)

MILOSLAVSKIY, Ya.I.; ARDAMATSKIY, N.A.; IVANOV, Yu.V.; LIKHVANTSEV, V.A.; LEGKUN, A.M.; MASLENNIKOVA, A.I.; CHERNYSHEVA, M.I.; TYUNINA, Ye.A.; SHOLOKHOVA, G.I. (Ryazan')

Urinary excretion of 17-ketosteroids and 17-hydroxy corticosteroids in healthy people. Probl. endok. i gorm. 9 no.3:76-80 My-Je 163. (MIRA 17:1)

1. Iz kafedry fakul*tetskoy terapii (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent N.A. Ardamatskiy) Ryazanskogo meditsinskogo instituta imeni I.P. Pavlova.



MILOSLAVSKIY, Ya. M.

Determination of 17-ketosteroids in urine. Elin. med., Moskva 30 no.3:67-71 Mar 1952. (CIML 22:2)

1. Of the Hospital Therapeutic Clinic (Director -- Prof. A. L. Myasnikov, Active Member of the Academy of Medical Sciences USSR), First Moscow Order of Lenin Medical Institute.

MILOSLAVSKIY, M.Ya.

Reflex vascular reactions in threatened abortion and their modifications. produced by verbal stimulation. Akush.i gin. no.2:12-18 Mr-Ap '54.

(MIRA 7:6)

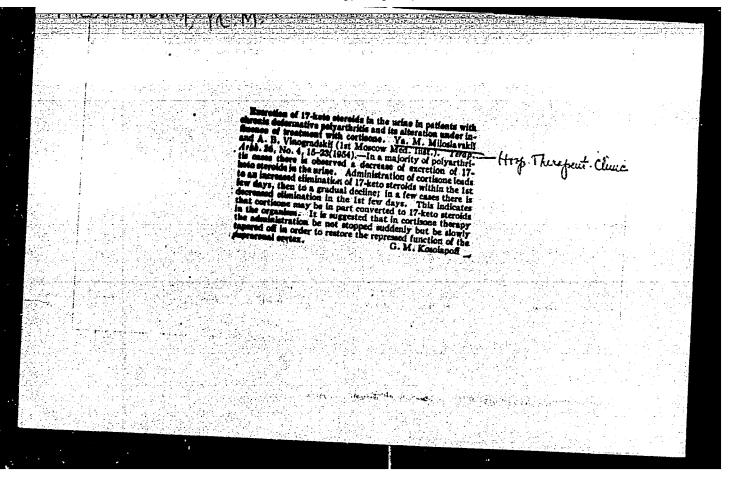
1. Is Khar'kovskogo nauchno-issledovatel'skoge instituta okhrany materinstva i mladenchestva im. N.K.Krupskoy (direktor A.I.Kornilova, nauchnyy rukoveditel' - doktor meditsinskikh nauk V.I.Konstantinov).

(Abortion) (Bloed vessels)

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Dissertation: "Investigation of the Corticoids, 17-Ketosteroids and Pregr Moscow Order of Lenin Medical Inst, 2	mandiol in Expertens	ion." Cand Led Sci. Fi	rst
00: 50% 284, 26 Nov 1954			
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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134320



USSR / Human and Animal Physiology (Normal and Pathological). Blood. Blood Pressure. Hypertonia

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97548

Author : Miloslavskiy, Ya. M.

: First Moscow Medical Institute Inst

: On the Question of Function of Adrenal Cortex in Title

Hypertension

Orig Pub: Tr. 1-go Mosk. med. in-ta, 1956, I, 74-84

Abstract: In patients with hypertension, excretion of corticoids, 17-ketosteroids, and pregnandiol with urine was studied. Amount of hormones in urine did not noticeably differ from the standard. The author feels that adrenal cortex does not participate in the

original increase in arterial pressure by hyperten-

sion. --L. S. Nakhutin

Card 1/1

40

SHIFMAN, L. M., MILOSLAVSKIY, M. Ya.

"The Problem of Pathology of the Menopause in Women."

Theses of the Proceedings of the Annual Scientific Sessions 23-26 March 1959 (all-Union Institute of Experimental Endocrinology)

From the Khar'kov Institute of Experimental Endocrinology (Director--Candidate of Medical Sciences S. V. Maksimov; Scientific Director--Professor M. A. Kopelovich) and from the Scientific Research Institute of the Protection of Motherhood and Childhood imeni N. M. Krupskaya (Director--A. I. Kornilova, Candidate of Medical Sciences).

MILOSLAVSKIY, Ya.M.; MILESLAVSKAYA, L.I.; LEONOVA, V.; KAZ'MIN, V.

Effect of certain neurotropic substances on the adrenal cortex.

Report No. 1. Probl. endok. i gorm. 6 no. 3:12-14 My-Je '60.

(MIRA 14:1)

(ADRENAL CORTEX) (PHARMACOLOGY)

SHAPIRO, Ya.Ye.; MILOSLAVSKIY, Ya.M.; CHERNYSHEVA, M.I.; MASLENNIKOVA, A.I.; TYUNINA, Ye.A.

Treatment of patients with relapsing rheumocarditis by means of inductothermy (shortwave diathermy) in the adrenal region in combination with salicylates. Vop. kur., fizioter. i lech. fiz. kult. 25 no. 6:508-513 N-D '60. (MIRA 14:2)

1. Iz fakulitetskoy terapevticheskoy kliniki (zav. - prof. Ya.Ye. Shapiro) Ryazanskogo meditsinskogo instituta imeni akademika I.P. Pavlova.

(RHEUMATIC HEART DISEASE) (DIATHERMY)
(SALICYLATES—THERAPEUTIC USE)

YAKIMCHUK, P.P., kand.med.nauk; MILOSLAVSKIY, Ya.M., kand.med.nauk; MILOSLAVSKAYA, L.I., kand.med.nauk

Effect of nitrogen dioxide on the adrenal cortex in white rats in chronic intoxication. Gig.i san. 26 no.12:79-80 D '61.

(MIRA 15:9)

1. Iz kafedry gigiyeny, kafedry fakulitetskoy terapii Ryazanskogo meditsinskogo instituta.

(ADRENAL CORTEX) (NITROGEN OXIDES—PHYSIOLOGICAL EFFECT)

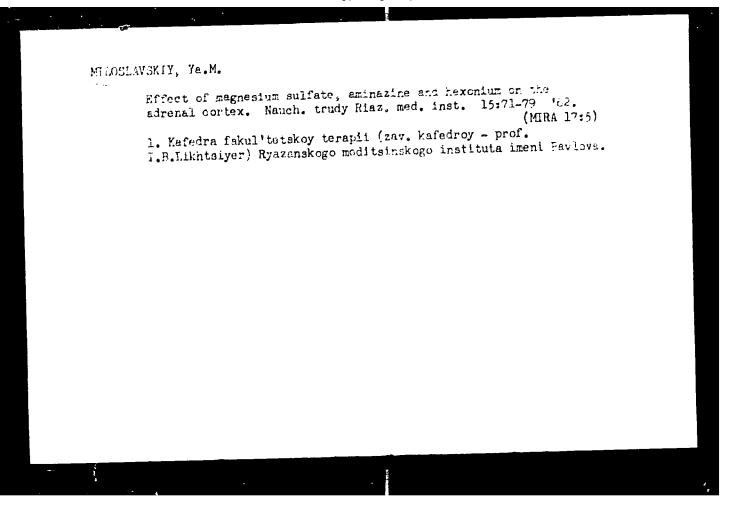
MILOSLAVSKIY, Ya.M.; KHUBUTIYA, R.D. (Ryazan')

Consecutive development of hypertension and thyrotoxicosis.
Klin.med. no.1:127-129 62. (MIRA 15:1)

1. Iz kafedry fakul tetskoy terapii (zav. - dotsent N.A. Ardamatskiy) Ryazanskogo meditsinskogo instituta.

(THYROID GLAND—DISEASES) (HYPERTENSION)

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ARDAMATSKIY, N.A.; MILOSLAVSKIY, Ya.M.; LIKHVANTSEV, V.A.; LEGKUN, A.M.; TYUNINA, Yo.A.

Comparative evaluation of the results of studying the content of sodium and potassium in the plasma, whole blood and erythrocytes in some internal diseases. Terap.arkh. 34 no.2:81-85 62.

(MIRA 15:3)

1. Iz kafedry fakul¹tetskoy terapii (i. o. zav. - dotsent N.A. Ardamatskiy) Ryazanskogo meditsinskogo instituta imeni akad. I.P. Pavlova.

(SODIUM IN THE BODY) (POTASSIUM IN THE BODY)
(BLOOD—EXAMINATION)

Case of successful surgical treatment of corticosteroma with Itsenko-Oushing syndrome, Klin.med. 40 no.6:109-112 Je '62.

1. Iz kafedr fakul'tetskoy khirurgii (zav. - prof. I.ye. Mateuyev) i fakul'tetskoy terapii (zav. - prof. I.B. Likhtsiyer) Ryazan'-skogo instituta imeni akad. I.P. Pavlova.

(ARRENAL CORTEX.—TUMORS) (CUSHING SYNDROME)

MILOSLAVSKIY, Ya.M.; ARDAMATSKIY, N.A. (Ryazan')

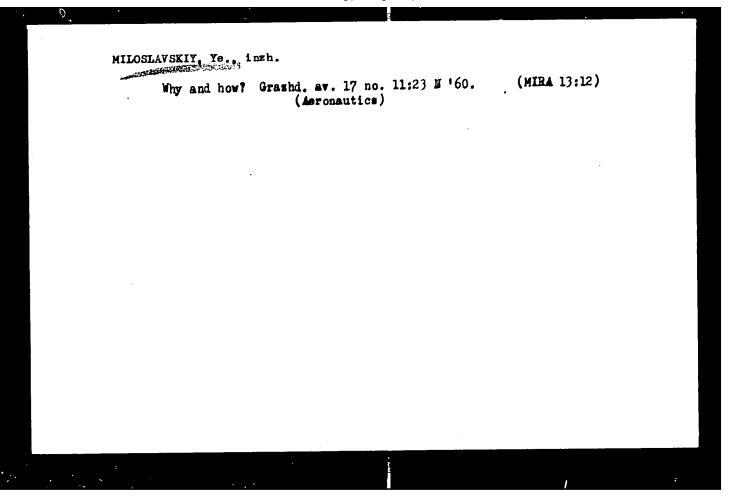
Urinary excretion of tetrahydroxy derivatives of corticosteroids in healthy persons based on paper chromatography data. Problem endok. i gorm. 9 no.5:62-66 S-0*63 (MIRA 16:12)

1. Iz kafedry fakul*tetskoy terapii (zav. - prof. I.B. Likhtsiyer) Ryazanskogo meditsinskogo instituta imeni akademi-ka I.P.Pavlova.

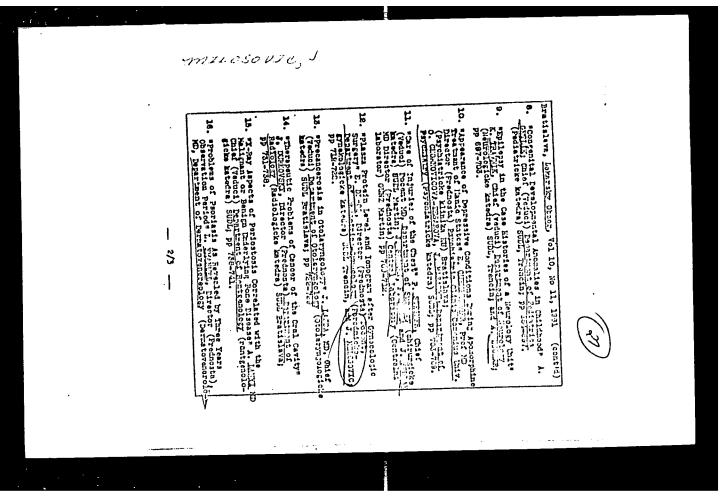
MILOSLAVSKIY, Ya.M.

Functional status of the adrenal cortex in hypertension.
Kardiologiia 4 no.3:19-27 My-Je *64. (MIRA 18:4)

1. Kafedra fakul tetskoy terapii (zav. - prof. I.B. Likhtsiyer) Ryazanskogo meditsinskogo instituta imeni Pavlova i Institut terapii AMN SSSR (dir. - deystvitel nyy chlen AMN SSSR prof. A.L. Myasnikov), Moskva.



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MILOSOVICOVA, H.

BARDOS, V.; BREZINA, R.; HYMPAN, J.; KMETY, M.; KRATOCHVIL, J.; LIBIKOVA, H.; MICICKA, O.; MILOSOVICOVA, A.; ROSICKY, B.; SOMODSKA, V.

A complex survey of infection foci in Hastern Slovakia in 1953. Bratisl. lek. listy 34 no.10-11:1166-1195 Oct-Nov 54.

1. Zo Zoologickeho ustavu Vysokej skoly polnohosp. v Brne, prednosta prof. dr. J.Kratochvil, s Virologickego ustavu CSAV v Bratislave, riaditel akademik D.Blaskovic, s Biologickeho ustavu CSAV v Prahe, riaditel akademik I.Malek, s Oblastneho ustavu epidemiologie a mikrobiologie v Bratislave, riaditel dr. J.Karolosk, s Neurologickej kliniky PLFSU v Kosiciach, prednosta doc. dr. J.Hympan, s KHESU v Kosiciach, riaditel dr. J.Kratochvil, s Hygienickeho ustavu LFSU v Bratislave, prednosta akademic V.Mucha

(ENCEPHALITIS, EPIDEMIC, epidemiology in Grech., foci survey in E.Slovakia) (LEPTOSPIROSIS, epidemiology in Crech., foci survey in E.Slovakia)

MASAR, I.; MILOSOVICOVA, A.; PUCEKOVA, G.; RODA, J.

Characteristics of the outbreak of infectious hepatitis in Slovakia in 1961. Cesk. epidem. 12 no.3:145-152 My *63.

l. Odbor SNR pro zdravotnictvo, Bratislava, Krajske hygienickoepidemiologicke stanice Kosice, Bratislava, Banska Bystrica. (HEPATITIS, INFECTIOUS) (GAMMA GLOBULIN)

*

MITTERMAYER, T.; SCHEIDOVA, L.; TARABCAK, M.; MILOSOVICOVA, A.; ZELENAKOVA, V.

Epidemic of Q fever in the Kosice region. Bratisl. lek. listy 44 no.5:288-295 164.

1. Infekcne oddelenie Fakultnej nemocnice v Kosiciach (veduci: prim. MUDr. T.Mittermayer), a Krajska hygienocko-epidemiologicka stanica v Kosiciach (riaditel MUDr. I. Kratochvil).

MIIOSTANON N.H., professor; ARLOZOROV, 2.G., starshiy nauchnyy sotrudnik;
GLENBOTSKAYA, O.V., nauchnyy sotrudnik

Changes in the capillaroscopic picture under the effect of transfusion of blood and its components. Vop.perel.krovi 4:58-69 *55. (MLRA 9:12)

(BLOOD-TRANSFUSION) (CAPILLARIES)

MILOSTANOV, N.N., professor; KOLMHKO, N.A., kandidat meditsinskikh nauk;

Surgical methods for treating hemorrhages in some diseases of the hemopoietic system (Werlhof disease, thrombophlebitic splenomegaly, giliary cirrhosis). Nov.khir.arkh. no.1:24-29 Ja-F '57. (MERA 10:6)

1. Adres avtorov: Khar'kov, ul. Chernyshevskogo, d9, Ukrainskiy nauchno-issledovatel'skiy institut perelivaniya krovi i neotloshnoy khirurgii.

(HEMORRHAGIC DISHASES)

Collection of "Problems of prevention and treatment of injuries".

Raviewed by N.N.Milostanov. Nov.khir.arkh. no.4:119-121 Jl-Ag
'59. (WOUNDS AND INJURIES)

(WOUNDS AND INJURIES)

Brief news. Nov. khir. arkh. no.1:1/2 Ja-F '60. (MIMA 15:2)

1. Predsedatel' konferentsi' chitateley zhurnala "Novyy khirurgicheskiy arkhiv" v Khar'kove (II.XII 1959 goda).

(SUMGERY__PERIODICALS)

MILOSTANOV, V. N., ass. (Khar'kov, ul. Pushkinskaya, d. 67/69, kv. 14)

Electrocoagulation as a method of choice in the surgical treatment of varicose dilatation of the veins of the lower extremities 'further observations'). Nov. khir. arkh. no.3:33-38 '62. (MIRA 15:4)

1. Kafedra fakul'tetskoy i gospital'noy khirurgii (zav. - prof. K. I. Pikin) pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov Khar'kovskogo meditsinskogo instituta.

(VARIX) (ELECTROSURGERY)

LEVINA, TS.A., prof.; MILOSTANUVA, V.V. (Odessa)

Tissue therapy in pneumosclerosis and pulmonary emphysema.
Vrach.delo no.2:185-186 F '59. (MIRA 12:6)

1. Kafedra propedevtiki vnutrennikh bolesney (sav. - prof.
TS.A.Levina) Odesskogo meditsinskogo instituta.
(LUNGS--DISMASMS) (EMPHYSEMA, PULMONARY) (TISSUE EXTRACTS)

LERMAN, Ivanka, inz.; SULC, Delimir, dr; MILOSTIC, Ivo, inz.

Influence of some pectolytic preparations on the degradation of pectins, and the depectination and clarification of apple juice. Kem ind 12 no.3:122-128 Mr . 163.

1. Tehnoloski fakultet, Zagreb, Tvormica "Jedinstvo", Zagreb.

FORETIC, Franjica, inz.; MILOSTIC, Ivo, inz.; BACH, Ivan, dr.

Changes in the pH and the concentration of lactic acid, as well as in the composition of the microflora in the brine of fermented olives. Kem ind 12 no.3:129-135 Mr '63.

1. Tehnoloski fakultet, Zagreb.

ROGINA, B., dr inz.; MILOSTIC, I., inz.; GARBIN, G., inz.

Production of agar from Yugoslav red algae. Kem ind 13 no.3:175-181 '64.

1. Agricultural Faculty, University of Zagreb (for Rogina). 2. Faculty of Technology, University of Zagreb (for Milostic and Garbin).

MILOSTIVENKO, S.

With belief in the future. Sov. profesiuzy no.17:8 S '61. (MIRA 14:8)

 Predsedatel rabochego komiteta sovkhoza imeni Kalinina, Pavlovskogo rayona, Krasnodarskogo kraya. (State farms)

MILOSTNY, V.

"Watch the aluminum-copper connections!"

ELEXTROTECHNI, Praha, Czechoslovakia, Vol. 14, No. 6, June 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1957. Unclassifie.d

MAJEWSKA, Janina, mgr; MILOSZ, Alicja

Color determination of aqueous caprolactam solutions by a photocolorimeter. Chem anal 9 no.2:377-379 '64.

1. Zaklad Wlokien Sztucznych, Instytut Wlokien sztucznych i Syntetycznych, Lodz.

KAZMIROWSKI, Antoni; MILOSZ, Jacok

Resistance welding of rhenium plated molybdenum wires. Przegl elektroniki 4 no. 5/6: 297-298 My-Je 163.

- Zaklad Fizyki Technicznej, Instytut Mechaniki Precyzyjnej, Warszawa (for Kazmirowski).
- 2. Zaklady Lamp Nadawczych L-14, Warszawa (for Milosz).

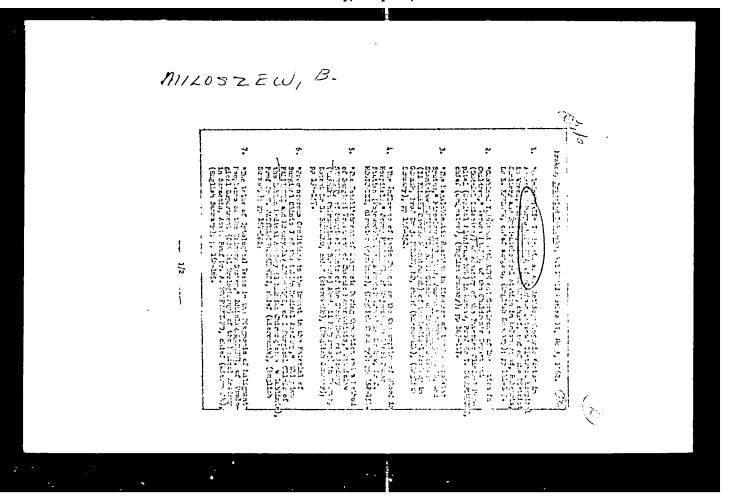
Improving rewoodworking	Improving results in additional basic training of workers in the woodworking industries. Przem drzew 12 no.10:30-31 61.		
	(Poland-Woodworkers)		

MILOSZ, M.

"Machine for Shelling Castor Peans." p. 27
"Communique Concerning the Supply of Frozen Potatoes to Distilleries of the
Ministry of State Farms or to Fattening Establishments of the Central Agency of
Industrial Fats." p. 28 (Plon, Vol. 5, No. 4, Apr. 1954)

SO: Monthly List of East European Accessions, Vol. 3, No. 6, Library of Congress, June, 1954, Uncl.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134320



MILOSZEWSKA, F.; RYTEL, J.

Protection of the wood in car bodies from decay. p.388

Warszaw, Poland. PREZEGLAD KOLEJOWY. Wydawnictwa Komunikacyjne Vol.10, no.9, Sept.1958

Monthly List of East European Accessions Index, (EEAI) LC, Vol.8, no.6 June 1959 Uncl.

KIELCZEWSKI, Wladysław; MILOSZEWSKA_PODOLAK, Irena

Determination of microamounts of pyrocatechol by the filter paper impregnation method. Chem anal 8 no.1:95-98 63.

1. Department of General Chemistry, School of Agriculture, Poznan.

MILOTA, Augustin

Technical and economic evaluation of ceiling constructions from wire reinforced concrete panels. Stav vzykum no.3:7-9 Je '6f.

1. Vyzkumny ustav stavebni vyroby, Praha.

MILOTA, Karel

The discussion of the general plan for reconstruction of Moscow. Doprava no.9:324-325 62.

MIHALYI, Erika; MILOTAY, Gyorgy; SINAY, Gabor

Mathematical formulas for the determination of contraction work. Gep 16 no. 4:145-151 Ap '64.

1. Research Institute of the Metal Industry.

MILOTAY, Laszlo, dr.

Infant mortality in the district of Csongrad 1953 to 1961.
Nepegeszsegugy 43 no.12:362-368 D '62.

1. Kozlemeny a Csongrad megyei Tanacs Egeszsegugyi Osztalyarol.

(INFANT MORTALITY)

MILOTOVA, J.; KIUSKA, Vlad.; STEISKAL, Jar.

Information about parents of children at an infectious ward as one of the methods of prevention of hospitalism. Cesk. pediat. 13 no.4:355-359 5 May 58.

1. KDW, Brno, infekcni odd, prednosta doc. MUDr. Vlad. Kluska. (CHILD PSYCHOLOGY hospitalism, prev. (Cs))

DIBELKA, F.; MILOTOVA, J.

Contribution to the problem of the treatment of children with Pierre Robin syndrome. Cesk. stomat. 65 no.6:413-418 N '65.

1. I. stomatologicka klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. J. Toman, DrSc.) a I. detska klinika pediatricke fakulty Karlovy University v Praze (prednosta prof. dr. J. Svejcar, DrSc.).

KHERSONSKAYA, Ye.L., kand.iskusstvovedcheskikh nauk; MILOTVORSKAYA, M.B., kand.iskusstvovedcheskikh nauk

Artists' contribution to the 22d Congress. Zdorov'e 8 no.2:8 F '62.

(PAINTINGS)

(PAINTINGS)

MILOUN, B.; SORM, F.

Amino acids and peptides. XIV. Constitution of peptide phalloidine. III. In German. p. 265.

Vol. 20, no. 2, Apr. 1955 SBORNIK CHEKHOSLOVATSKIKH KHIMICHESKIKH RABOT Praha, Czechoslovakia

So: Eastern European Accession Vol. 5. No. 4. April 1956

MILOV, A., student

Characteristics of the blood system's reaction and general state of an animal to oxygen insufficiency in radiation sickness. Trudy Semipal. med. inst. 2:118-128 '59. (MIRA 15:4)

1. Iz kafedry patologicheskoy fiziologii Semipalatinskogo gosudarstvennogo meditsinskogo instituta (zav.kafedroy - dotsent T.A.Nazarova, rukovoditel' temy - kand.med. nauk N.A.Shelkovskiy).

(RADIATION SICKNESS) (ANOXEMIA) (BLOOD)

107-57-1-40/60

AUTHOR: Milov, A. (Kuybyshev)

TITLE: Long-distance TV Reception in Kuybyshev (Dal'niy priyem televizionnykh peredach v g. Kuybysheve)

PERIODICAL: Radio, 1957, Nr 1, p 37 (USSR)

ABSTRACT: The conditions of long-distance TV reception in Kuybyshev change materially from winter to summer. In winter TV reception has been possible only for a few dozen seconds. In summer, programs were received on some days for many hours. The author reports many occasions of receiving "Minsk-1" station and foreign TV programs. Erratic appearance and disappearance of the picture and ghost signals accompanied such receptions. Reception dates and time periods are indicated in the article.

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MILOV, A.

107-57-5-29/63

AUTHOR: Milov, A. (Kuybyshev)

TITLE: Regular Reception of London TV Broadcasts in Kuybyshev City

(Regulyarnyy priyem londonskikh televizionnykh peredach v g. Kuybysheve)

PERIODICAL: Radio, 1957, Nr 5, p 25 (USSR)

ABSTRACT: Regular dxing of London tv broadcasts on 45 mc in November-December 1956 is described. A 12-element 4-tier antenna tuned to 49 mc and oriented 10-15° to the North from the true London azimuth was used. A type 23LKIB kinescope with 405 lines and vertical frequency 25 was used. Often a multi-outline picture was received. A sharp variation of the signal level was observed at 14 hrs Moscow time when the midday Sun stood in the middle between Kuybyshev and London.

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MILOV, Assinghener; GENDEL', A., redaktor; STEPANOVA, M., tekhnicheskiy

[On the road to growth; practices of the casting shop of the Kirov Machine Building Plant in Minsk] Po puti rosts; is opyta reboty liteinogo tsekha Minskogo stankortroitel nogo savoda im. Kirova. Minsk, Gos. izd-vo BSSR, 1956. 25 p. (MIRA 10:1) (Founding)

ZASTENKER, Grigoriy Semenovich; MILOV, Aleksandr Aleksandrovich; SVETLOVA, Ye.F., red.; MAYSKAYA, N.I., red.; IL YUSHENKO-VA, T.P., tekhn. red.

[Control and output of work at machine accounting centers]
Kontrol' i vypusk rabot na mashinoschetnykh stantsiiakh. Moskva, Gosstatizdat TsSU SSSR, 1961. 95 p. (MIRA 15:3)
(Machine accounting-Study and teaching)

8/137/61/000/012/035/149 a006/a101

AUTHORS:

Kolomitskiy, P.M., Milov, A.I., Ponomarev, V.D.

TITLE:

On the solubility of titanium dioxide in potassium fluoro-titanate

melts

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 17, abstract 12G124 (Izv. AN KazSSR, Ser. metallurgii, obogashcheniya i ogneupo-

rov", 1961, no. 1 (10), 26 - 32, Kaz. summary)

TEXT: The authors studied maximum solubility of TiO_2 in a pure K-fluorotitanate melt, and in a melt with NaCl admixture. Visual and thermographical methods were used to establish maximum solubility of TiO_2 in K_2TiF_6 which was found to be equal to 7 weight %. The data obtained were employed to plot a constitution diagram of K_2TiF_6 -TiO₂ up to a content of 12.5% TiO₂. With the aid of petrographical analysis the authors established the solubility of TiO_2 up to 5% in melts of eutectic composition: NaCl - K_2TiF_6 . There are 7 references.

G. Svodtseva

[Abstracter's note: Complete translation] Card 1/1

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001134320(

S/817/62/005/000/005/012 A006/A101

AUTHORS: Putilin, Yu. M., Ponomarev, V. D., Milov, A. I., Dautova, L. I.

TITLE: Thermographical investigation of the K2TiF6-NaCl-TiO2 system

SOURCE: Akademiya nauk Kazakhskoy SSR. Institut metallurgii i obogashcheniya. Trudy. v. 5, 1962, Tsvetnaya metallurgiya, 82 - 94

TEXT: Using Kurnakov's thermal method the authors investigated the phase diagram of the K₂TiF₆-NaCl-TiO₂ system near binary eutectics K₂TiF₆-NaCl and K₂TiF₆-TiO₂. Batches of these substances were mixed, remelted and heated in platinum crucibles or blocks placed in a pyrometrical apparatus. After thermographical inspection thermograms of 78 compositions were taken. On the basis of results obtained from thermographical, roentgenostructural and crystallographical analyses a phase diagram of the system and phase diagrams of the binary systems were plotted. A spatial diagram of the system in the investigated range is presented and described. Polythermic cross-sections of the system are given at a constant 1-, 2-, 3- and 4-% content of titanium dioxide. A fusibility diagram

Card 1/6 2

Thermographical investigation of the...

S/817/62/005/000/005/012 A006/A101

of the system is plotted on the concentration triancle and the boundaries of lamination zones are determined (Figure 13). The behavior of the basic component of the alloys - potassium fluorotitanate - was analyzed. On the basis of previous data, obtained by Kolómitskiy, Milov, Ponomarev and Putilin, it is assumed that this component is present in three polymorphous forms. For pure potassium fluorotitanate the following modifications are to be considered: δ - stable in a range from room temperature to 380°C; γ - stable in a 280 - 640°C range; β - stable at temperature over 640°C. Starting from 680°C noticeable dissociation begins. Full melting takes place at about 850°C. There are 17

Card 2/4